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S/N 09/145,595

EXPEDITED PROCEDURE - EXAMINING GROUP 2879

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ji Ung Lee
Serial No.: 09/145,595
Filed: September 2, 1998
Title: FIELD EMISSION DEVICES HAVING STRUCTURE FOR REDUCED
EMITTER TIP TO GATE SPACING

Examiner: Karabi Guharay

Group Art Unit: 2879

Docket: 303.537US1

AMENDMENT & RESPONSE UNDER 37 C.F.R. § 1.116

Box AF
Commissioner for Patents
Washington, D.C. 20231

In response to the Final Office Action mailed February 22, 2001, please amend the application as follows:

IN THE CLAIMS

Please add the following new claims:

47. (New) A field emitter array, comprising:
a number of cathodes in rows along a substrate;
a gate insulator located along the substrate and surrounding the cathodes, the gate insulator having a gate line region thickness;
a number of gate lines coupled to the gate insulator, wherein a gate to cathode distance between a portion of the gate line and the cathode is substantially thinner than the gate line region thickness ; and
a number of anodes located in columns orthogonal to and opposing the rows of cathodes.

48. (New) The field emitter array of claim 47, wherein the number of cathodes include polysilicon cones.

49. (New) The field emitter array of claim 47, wherein the number of gate lines include refractory metals.

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